



2100 Pennsylvania Avenue, NW  
Washington, DC 20037-3213  
T 202.293.7060  
F 202.293.7860  
www.sughrue.com

John T. Callahan  
T 202-663-7387  
jcallahan@sughrue.com

September 20, 2006

MAIL STOP PCT  
Commissioner for Patents  
P.O. BOX 1450  
Alexandria, VA 22313-1450

PCT/JP2005/004691  
-filed March 16, 2005

Re: Application of Yoshichika FUKASAWA; Mahito FUJITA  
METHOD OF VULCANIZATION MOLDING OF RUBBER MATERIAL  
Assignee: **BRIDGESTONE CORPORATION**  
Our Ref: Q96963

Dear Sir:

The following documents are submitted herewith in connection with the above application for the purpose of entering the National stage under 35 U.S.C. §371 and in accordance with the Patent Cooperation Treaty:

- ☒ a copy of the executed Declaration and Power of Attorney.
- ☒ an English translation of the International Application. Also enclosed is the first two pages of WO 2005/090042 A1.
- ☒ 3 sheet(s) of drawings.
- ☐ an English translation of Article 19 claim amendments.
- ☐ an English translation of Article 34 amendments (annexes to the IPER).
- ☐ a copy of the executed Assignment and PTO 1595 form.
- ☒ a copy of the ISR.
- ☐ a copy of the IPER.
- ☒ a PTO/SB/08 A & B (modified) listing the ISR/IPER references.
- ☐ a copy of each reference cited in the ISR/IPER.
- ☒ a Preliminary Amendment.

In addition to the documents submitted herewith, it is assumed that copies of the International Application, the International Search Report and cited references, the International Preliminary Examination Report, and any Articles 19 and 34 amendments as required by §371(c) will be supplied directly by the International Bureau, but if further copies are needed, the undersigned will undertake to provide them upon request.



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It is expressly requested that the national stage of processing be commenced immediately in accordance with 35 U.S.C. § 371(f).

The Government filing fee, after entry of the Preliminary Amendment is calculated as follows:

Total claims	<u>6</u> - <u>20</u> = _____	x	\$50.00	=	<u>\$0.00</u>
Independent claims	<u>1</u> - <u>3</u> = _____	x	\$200.00	=	<u>\$0.00</u>
Base Fee					<u>\$300.00</u>
Search Fee					<u>\$400.00</u>
Examination Fee					<u>\$200.00</u>
<b><u>TOTAL FEE</u></b>					<u><b>\$900.00</b></u>

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Priority is claimed from:

<u>Country</u>	<u>Application No</u>	<u>Filing Date</u>
Japan	2004-082054	March 22, 2004

Respectfully submitted,

/John T. Callahan/  
John T. Callahan  
Registration No. 32,607

SUGHRUE MION, PLLC  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860

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[JP/JP]; 〒1048340 東京都中央区京橋 1 丁目 10 番  
1 号 Tokyo (JP).

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(75) 発明者/出願人 (米国についてのみ): 深澤 幹哉 (FUKA-  
SAWA, Yoshichika) [JP/JP]; 〒1878531 東京都小平市  
小川東町 3-1-1 株式会社 ブリヂストン 技術セン  
ター内 Tokyo (JP). 不二 真人 (FUJII, Mahito) [JP/JP]; 〒  
1878531 東京都小平市小川東町 3-1-1 株式会社 ブ  
リヂストン 技術センター内 Tokyo (JP).

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(74) 代理人: 杉村 興作 (SUGIMURA, Kosaku); 〒1000013  
東京都千代田区霞が関 3 丁目 2 番 4 号 霞山ビルデ  
ィング 7 F Tokyo (JP).

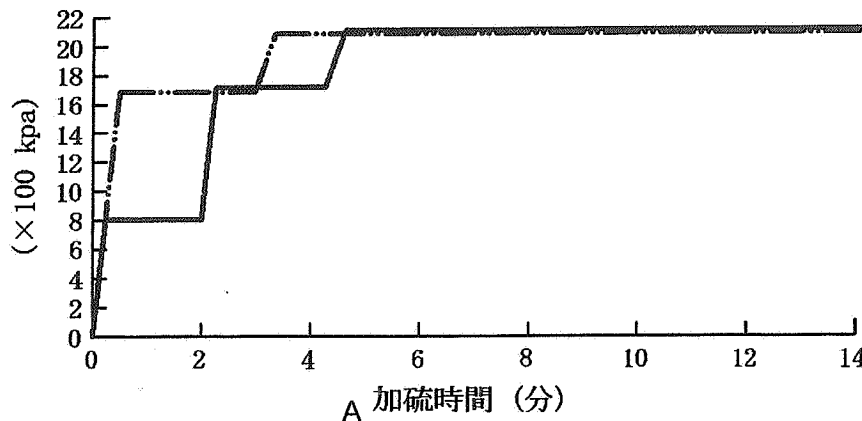
(71) 出願人 (米国を除く全ての指定国について): 株式会  
社 ブリヂストン (BRIDGESTONE CORPORATION)

(81) 指定国 (表示のない限り、全ての種類の国内保護が  
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[続葉有]

(54) Title: METHOD OF VULCANIZATION MOLDING OF RUBBER MATERIAL

(54) 発明の名称: ゴム素材の加硫成形方法



A... VULCANIZATION TIME (MIN)

(57) Abstract: A method of vulcanization molding of a rubber material in which without interfering with discharging of confined air, etc., the vent spew and protrusion lengths of rubber product can be shortened to an extent not detrimental to distinguished look of product without trimming-off thereof, and in which there is no danger of clogging of vent holes, etc. by broken vent spew, etc. There is provided a method of vulcanization molding, comprising, while heating a vulcanization metal mold, compressing a rubber material onto a shaping surface of the metal mold by pressure applied toward the interior of the metal mold and effecting vulcanization thereof, wherein a low-pressure fluid is fed into the vulcanization metal mold at the initial stage of vulcanization molding started and thereafter the fluid pressure is stepwise or non-stepwise increased.

(57) 要約: 封じ込め空気等の排出を妨げることなしに、また、ゴム製品のベントスピーューおよびはみ出しの長さを、それらのトリミング除去なしにも、製品の見映えを損ねない程度

[続葉有]

WO 2005/090042 A1



BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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— 国際調査報告書

- (84) 指定国 (表示のない限り、全ての種類の広域保護が可能): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), ヨーロッパ (AT, BE,

2文字コード及び他の略語については、定期発行される各PCTガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

にまで短くすることができ、破断したベントスピーア等による、ベントホールその他の閉塞のおそれを生じることもない、ゴム素材の加硫成形方法を提供することを目的に、加硫金型を加熱するとともに、その金型内への供給圧力によってゴム素材を金型成形面に押圧して加硫するに当り、加硫成形の開始初期には、加硫金型内へ低圧流体を供給し、その後、流体圧力を、段階的もしくは無段階的に増加させる。